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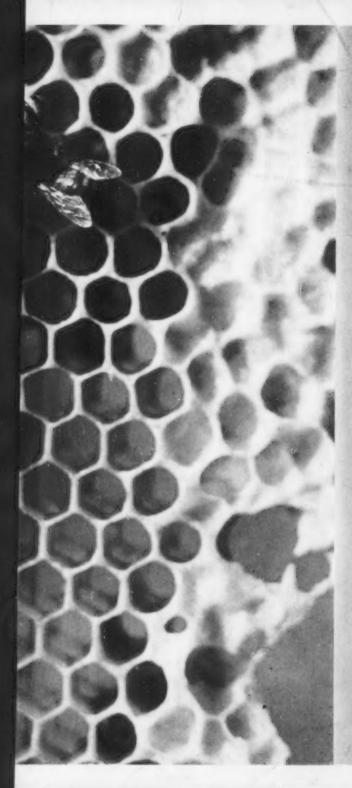
VOL. 63, NO. 22

PAGES 337-340

SCIENCE NEWS LETT

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Housing Prefabricated



Prefabricated Housing See Page 338





to be the first non-wax comb that bees specially treated plastic. have filled with honey. It is believed

Holland R. Sperry, science instructor at Mich. Cranbrook School, Bloomfield Hills, The plastic comb was developed by

of this week's Science News Letter are storage. preparing the plastic cells for honey The bees shown on the front cover At the bottom of the picture

> been filled. The wax cells have been natural combs but not on the plastic hive partially destroyed by bee-wax moths, pests that commonly reed on

of wax combs. waste both time and nectar when they are required to do extensive building honey from the nectar they gather, they Since bees can make either wax or

Science News Letter, May 30, 1953

GENERAL SCIENCE

## Adequate Manpower

fort" to provide the nation with ade-➤ A "DETERMINED cooperative efwas urged on President Eisenhower. sional manpower to meet defense needs quate resources of scientific and profes-

were given to the President by Columbia University's National chairman of the group. when he was head of Columbia. James Zellerbach The 14 recommendations to this end Zellerbach, president of Corp., San Francisco, Manpower Crown

previous executive orders and laws Mobilization on Sept. 6, 1952, and by established by the Office of Defense tific and technical manpower as already closely to government policy on scienrecommendations conformed

tary duty, the commission feels. graduate work before they begin milistudents should be permitted to go into graduation. ROTC students into active service after ments should be more flexible in calling Council asks One of the 14 is new. In the one new recommendation, the that the military depart-Well qualified ROTC

nation as affected by military research, ter use of scientific and technical collège draft deferment program, tion, collection of reliable knowledge sonnel by industry and government, and better control over the recall of panded opportunities for college educainto the basic research needs of the The human resources, recommendations include investigation per-

> of swarms breaking out and affecting an area from French North Africa to Pak-Middle East, for there is great danger istan and India. THE POCKET SITUATION IS CIETICAL III THE

# SCIENCE NEWS LETTER

VOL. 63 May 30, 1953

No. 19

The Weekly Summary of Current Science, published every Saturday by SCIENCE SERVICE, Inc., 1719 N St., N. W., Washington 6, D. C., NOrth 7-2255. Edited by WATSON DAVIS.

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ZOOLOGY

MEDICINE

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# Emperor Penguin

➤ THE DAPPER Emperor penguin is something of a reptile beneath his fine

Scientists often consider all birds as a sort of "modified reptile," specialized offshoots from that class of animals in ancestry, than his less elegant cousin more primitive bird, closer to his scaly peror penguin may of a new discovery, however, the Emthe course of evolution. On the basis be considered a

chick embryos do. of penguin development resemble rep-A series of 16 Emperor penguin embryos, recently collected in the Falktilian embryos of similar age more than land Islands, indicate that early stages

ogy states that development of an indi-vidual follows in a "shorthand" form the evolutionary history of the species (Humans, for instance, have gill slits A generally accepted "law" in biol

## Reptilian

at one stage in embryonic develop-

closer the relation. closer the resemblance, probably the many respects. Scientists argue that the pected to resemble those of reptiles in Thus, bird embryos would be ex-

This discovery on penguin embryos was reported by Dr. T. W. Glenister School, London. Charing Cross Hospital Medical

sphere. and can weigh more than 50 pounds. Emperor penguins, like all penguins, are restricted to the Southern Hemi-They grow to three feet tall

egg by holding it in a exposed to the cold. one mate is tired of incubating, the egg between the abdomen and instep. movement of the ankle so it is not is passed to the other with Emperor penguins incubate their one fold of

Science News Letter, May 30, 1953

ZOOLOGY

## Bees Fill Plastic Combs

See Front Cover

have filled with honey. to be the first non-wax comb that bees specially treated plastic. housing is an artificial comb made of FOR BEES, the latest prefabricated It is believed

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> natural combs but not on the plastic by the bees after the plastic cells had been filled. The wax cells have been

of wax combs.

ments should be more flexible in calling One of the 14 is new. graduate work before they begin milistudents should be permitted to go into graduation. ROTC students into active service after Council asks that the military depart-In the one new recommendation, the duty, the commission Well qualified feels.

collège draft deferment tion, collection of reliable knowledge sonnel by industry and government ter use of scientific and technical panded opportunities for college educarecommendations program include CX.

reservists.

chinery for reviewing such cases. is requested by their employers. recalled to active duty if exemption whether particular reservists should be calls for a civilian board to Sen. Ralph Flanders, (R-Vt.), which give a boost to a bill introduced by Defense Department already has ma-The Council recommendations should

state, local and private support for students knowledge about careers ening scientific courses in the nation's high schools, for schools, colleges and universities. education. Such support was also asked students who cannot afford a college The Council also called for strength for giving high school

seriously the two-billion-dollar governtion, as defined by law, is to assess teaching and basic research. One of the universities from their primary jobs of gram may be diverting colleges ment research and development prolish a commission to determine how tween basic and applied research in the see that there is a correct balance governmental and private research duties of the National Science Founda-The President was asked to estab-

various subjects.
Science News Letter, May 30, 1953

of swarms breaking out and affecting an area from French North Africa to Pakistan and India. Middle East, for there is great danger The locust situation is cretical in the

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## GENERAL SCIENCE

## Follows Draft Potential Size of Armed Forces

➤ THE RECENT order cutting the size the Armed Forces should reach on June 30, 1954, by 291,000 shows an appreciation of the mathematical facts of life.

Defense Secretary Charles E. Wilson essentially had to decide whether he was period above two years or whether he was going to cut down on the size of the Armed Forces. There just are not enough young men turning 18 and a half each year to keep up a force of 3,647,000 with a draft period of only going to ask Congress to raise the draft

tually exhausted. Stopgap measures, such enough men into the pool to keep it going for another year. But after that, From June, 1950, until now the Armed Forces have been coasting along on a manpower pool made up of the This pool has been viras drafting fathers or canceling deferment for young farmers, essential workers and students, might have dumped the pool would have been dry again. between men draftable young 26 years of age.

draftable. Multiply the top figure by two, for the two-year draft and there Forces and there is a total available of The Pentagon is faced with the fact that only between 1,050,000 and 1,200,-Of those, only 700,000 to 800,000 are top supply of 1,600,000. Add to generally accepted total of ''professionals'' in the Armed This still falls about 250,000 short of Mr. Wilson's goal of 3,356,000, but it is a more workable 000 men turn 18 and a half each year. total of only 3,100,000. 1.500.000 this the deficit.

Science News Letter, May 30, 1953

## Forecast Medical Uses MEDICINE

For Silicone Chemicals
➤ POTENTIAL MEDICAL uses, both on the skin surface and under the skin, Surgeons at Edgewater Park, for silicones were forecast at the meetof the American Association Mississippi. Plastic

bouncing putty for children, are chemical compounds of organic and inorganic substances, with properties unlike They can be liquid or solid, are resistant to any and have non-Because of their one form any other known material. used in temperature extremes sticking properties. Silicones,

Brown pointed out that these chemicals providing a protective covering taken to frigid or tropical climates with no change in their consisttect it from minauons such as diaper for burns, and preventing sogginess of skin surrounding wet dressings. ency from weather conditions.

silicones are perfectly safe for use under the skin, these chemicals may be vastly cartilage or bone in the restoration of studies prove that for human substituting facial and bodily defects. If experimental beneficial in

Cartilage taken from the patient's ears, noses, chins or other parts In the future silicones disease or congenital defects have deof the body. In the future silicones may well substitute for the tedious and chest wall is now used when accidents, difficult process, Dr. Brown said.

Science News Letter, May 30, 1953

sified 3,800 stars by magnitude and location for use in preparing images of Punched card equipment recently clasthe heavens for a new planetarium.

TOPPOR

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ZOOLOGY

### May Poison Patient Alcohol Sponging

mon "rubbing alcohol" in hospitals, for ▶ USE OF isopropyl alcohol, the com-Dr. Roy F. Garrison of patient to reduce fever Kansas City, Mo., warns sponging a dangerous,

was 'undoubtedly' a result of inhaling the alcohol fumes from the large quan-He reports a case of a 22-month-old baby boy who was given such sponging and was acutely poisoned as a result. The intoxication, Dr. Garrison states, tity used in a small, unventilated cubicle.

Association (May 23), he advises the In the Journal of the American Medical Tepid sponging to reduce fever in children has long been an accepted procedure but "the methods commonly used are poor," Dr. Garrison charges.

no other covering, Every few minutes resaturate the towel which has been Saturate a towel with cool or cold Place over the patient with warmed by the body. following method: water only.

Science News Letter, May 30, 1953

# Books of the Week

For the editorial information of our readers, books received for review since last week's issue are listed. For convenient purchase of any U.S. book in print, send a remittance to cover retail price (postage will be paid) to Book Department, Science Service, 1719 N Street, N. W., Washington 6, D. C. Request free publications direct from publisher, not from Science Service.

tory, Its Versions and Its Nature—Walther Riese—Philosophical Library, 120 p., \$3.75.
Analyzes the various conceptions of disease.
ELEMENTS OF ELECTACITY—William H.
Timbie and Alexander Kusko—IFFley, 4th ed., 631 p., illus., \$5.50. New illustrations and problems have been added to this standard elementary text to bring it up-to-date. CONCEPTION OF DISEASE: Its His-s Versions and Its Nature—Walther THE

IE END OF THE WORLD: A Scientific ity—Kenneth Heuer—Rinebart, 220 pflift, \$3.00. Explores the scientific possibilamong the ways in which the world THE END OF illus., \$3.00.

nual Eastern States Health Education Conference, this offers suggestions on how the objective of health in the mass can be effec-Ed.-Health Education Council, Galdston, E. \$4.00. ively achieved.

vancement of Science, 106 p., paper, 85 cents. Papers on Oil in Peace and War, Biology of Flying, Road Accidents, Problems of Old THE ADVANCEMENT OF SCIENCE, Vol. IX, o. 36—British Association for the Ad-36-British Association for

ADVENTURES IN ARTIFICIAL RESPIRATION—Peter V. Karpovich—Associated Press, 303 p., illus., \$7.50. Describes in detail 117 known methods of artificial respiration and

relates the story of their evolution.

BRD. AND MAMMALS OF THE SIERRA NEVADA: With Records from Sequoia and vada: With Records from Sequoia and Kings Canyon National Parks—Lowell Canyon and Joseph S. Dixon—University of California Press, 484 p., illus., \$7.50. Outline the habits of Sierra wildlife and gives in formation about its continental distribution.

Science News Letter, May 30, 1953

Spinel was one of the first gems to be synthesized.

Its Health, Beauty and Growth By Herman Goodman, M.D.

A medical specialist tells you what to do to save and beautify your hair, shimulate healthlest hair growth, and deal with many problems, as: Dan-druff—gray hair—thinning hair—care of the scalp —baldness—abnormal types of hair—excessive olimas—brittle droness—hair falling out—laidee.



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1,500,000 "professionals" in the Armed Forces and there is a total available of 3,356,000, but it is a more workable This still falls about 250,000 short of Mr. Wilson's goal of uns are generany accepted total or 1,500,000 "professionals" in the Armed only 3,100,000.

Science News Letter, May 30, 1953

MEDICINE

## For Silicone Chemicals Forecast Medical Uses

▶ POTENTIAL MEDICAL uses, both on the skin surface and under the skin, for silicones were forecast at the meeting of the American Association of Plastic Surgeons at Edgewater Park, Mississippi.

**James** Barrett Brown, M. P. Fryer and Peter Randall of Washington University inertness, they can be widely used to Medical School, St. Louis, reported to ganic substances, with properties unlike any other known material. They can be liquid or solid, are resistant to any Because of their Silicones, used in one form as bouncing putty for children, are chemical compounds of organic and inortemperature extremes and have nonabrasions, Drs. sticking properties. cover surface

clude: water-proofing the skin to pro-New medical uses for silicones inthe meeting.

THE CONCEPTION OF DISEASE: Its History, Its Versions and Its Nature—Walther

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The End of the World. A Scientific

HE END OF THE WORLD: A Scientific ity—Kenneth Heuer—Rinebart, 220 pflift, \$3.00. Explores the scientific possibilations the ways in which the world illus., \$3.00. could end. Inquiry

THE EPIDEMIOLOGY OF HEALTH—Iago Galdston, Ed.—Health Education Council, nual Eastern States Health Education Conerence, this offers suggestions on how the Based on the Eleventh Anobjective of health in the mass can be effecively achieved. 197 p., \$4.00.



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clude: water-proofing the skin to pro-



were given the vitamin in addition to a diet that was good or at least fair in protein supply. It did not matter whether the vitamin was given before and after or only after the operation. However, the vitamin did not cause any significant increase in wound healing rate or strength in animals on a low protein diet.

Science News Letter, May 30, 1953

PHYSICS

# Competitive Atomic Power Foreseen 15 Years Hence

➤ IT WILL be 15 years or more before atomic power is available commercially on a competitive basis with present

ity, would greatly stimulate industry's interest in the whole atomic energy project, he said.

Science News Letter, May 30, 1953

This is an unusual issue of the SCIENCE NEWS LETTER -- and we share with you the hope that colorful and complete issues will be coming to you regularly. This emergency edition is made necessary by a stoppage in the plant of our regular printers.

the materials do not have to come in contact with oxygen.

In order to use very high temperatures, Dr. Daniels said, it will probably be necessary to eliminate the metallic enclosures of the atomic fuel which are now used to prevent radioactive materials from leaving the atomic furnace.

Contamination of the turbine must be accepted, and repairs would have to be made by remote control. The amount of contamination can be determined best by operating small pilot plants.

Science News Letter, May 30, 1953

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# Do You Know?

The thick, ungainly tail of the Gila monster acts as a food reservoir storing up nourishment for the *reptile* to be used during times when forage is scarce.

In comparable latitudes, the Pacific Ocean is generally rougher than the Atlantic because of the greater expanses of open water which let bigger waves build up under the same wind forces.

Polyamide resins are the work-horses of the packaging industry: when spread on paper, metal foil or plastic film, they turn away water vapor; when heated, they become adhesives; they withstand greases, oils and other chemicals, and they form bright coatings.

Fifty-four countries and territories are in the process of developing TV.

MEDICINE

## Wound Healing Vitamin Advised Before Operations Advised Before Operations

➤ PATIENTS HAVING operations in the future and wounded soldiers perhaps will be given doses of vitamin B-12, even if they do not have the pernicious anemia for which this vitamin is a remedy.

The reason is that the vitamin speeds wound healing, especially in the early stages. This is the case for laboratory rats, at least, Dr. Charles W. Findlay Jr., of the College of Physicians and Surgeons, Columbia University, and the Presbyterian Hospital, New York, has discovered. His report appears in the Proceedings of the Society for Experimental Medicine and Biology (March).

Vitamin B-12, besides it role in pernicious anemia, has been found an important growth factor in young animals, and several researchers believe it plays a part in synthesis in the body of protein. Since body proteins are important in wound healing, Dr. Findlay decided to investigate the effect of the vitamin on wound healing.

The tensile strength of wounds in these animals was increased by at least the third day, and was most noticeably increased by the sixth day when they were given the vitamin in addition to a diet that was good or at least fair in protein supply. It did not matter whether the vitamin was given before and after or only after the operation. However, the vitamin did not cause any significant increase in wound healing rate or strength in animals on a low protein diet.

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PHYSICS

# Competitive Atomic Power Foreseen 15 Years Hence

➤ IT WILL be 15 years or more before atomic power is available commercially on a competitive basis with present

electric power, Dr. Harry A. Winne, vice-president of General Electric Company, predicted at the dedication of the University of Rhode Island's new Pastore Chemical Laboratory.

Large atomic-electric power stations could be built within five years, he said, if someone wants to pay for them, but the cost would be "terrific." The atomic bomb and the nuclear-powered submarine are "gadgets" built quickly by a "crash" program with unlimited funds because of very special circumstances—the stupidity of the human race, or parts of the human race, which brings about one war after another.

To keep atomic-electric power out of the "gadget" class, the industry must develop on a sound basis, Dr. Winne said. That will be when it can compete with conventional electric power without requiring a government-supported weapons program for the plutonium produced as a by-product.

Dr. Winne, who received an honorary degree, urged that atomic power development be carried out with due regard not only for the conservation of money but of 'that much rarer commodity, scientific and engineering manpower.' Relaxation of present stringent restrictions of the atomic energy act, without jeopardizing national security, would greatly stimulate industry's interest in the whole atomic energy project, he said.

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CHEMISTRY

### Urge Gas Turbine For Sub Atomic Engine

➤ A GAS TURBINE might solve the problem of getting power from the atom to propel submarines, Dr. Farrington Daniels, chairman of the chemistry department at the University of Wisconsin, stated in Madison, Wis.

"Although progress is being made, particularly in the development of an atomic engine for a submarine," he said, "I believe that a bolder approach should be followed also, and that another line of attack should be made, emphasizing a gas turbine."

Although gas turbines are efficient only at very high temperatures, the atomic furnace is peculiarly suited to high temperatures, such temperatures being limited by the properties of available construction materials.

Ordinary gas turbines, operated by burning fuel, have to be resistant to the oxygen used for chemical combustion of the fuel. Dr. Daniels suggested that an inert gas, such as nitrogen or helium, could be circulated through an atomic furnace and gas turbines using a closed cycle.

It may be possible, he predicted, to go to higher temperatures than are now possible in gas turbines, providing that the materials do not have to come in contact with oxygen.

In order to use very high temperatures, Dr. Daniels said, it will probably be necessary to eliminate the metallic enclosures of the atomic fuel which are now used to prevent radioactive materials from leaving the atomic furnace.

Contamination of the turbine must be accepted, and repairs would have to be made by remote control. The amount of contamination can be determined best by operating small pilot plants.

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